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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/734,811	12/11/2000	Mark A. Peloquin	AUS9-2000-0509-US1	2074
35525	7590	06/02/2004	EXAMINER	
DUKE W. YEE CARSTENS, YEE & CAHOON, L.L.P. P.O. BOX 802334 DALLAS, TX 75380			TRUONG, LECHI	
			ART UNIT	PAPER NUMBER
			2126	

DATE MAILED: 06/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/734,811	Applicant(s) PELOQUIN ET AL.	
	Examiner LeChi Truong	Art Unit 2126	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4/19/2004 6) ☐ Other: _____

DETAILED ACTION

1. Claims 1-20 are presented for examination.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 10, 19, 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuwate (US patent 6,145,067).

3. **As to claim 1**, Kuwate teaches the invention substantially as claimed including a device (physical disks, col 3, ln 25-30), device information (an external request, col 2, ln 21-28/ col 3, ln 10-17/ col 6, ln 35 section, col 2, ln 21-30/ col 3, ln 1-17/col 6, ln 35-40), transforming the device into a logical disk (logically divided into P-EXTENTS 141, 142, 143, 144. The P-EXTENT 141, 142, 143 and 144 constitute one logical disk, col 3, ln 25-30/ the logical disk is reconfiguration, col 2, ln 30-35), based on the device information (reconfiguring the logical disk in accordance with a request from the external interface section 11, col 3, ln 10-17). Kuwate does not explicit teach the term "a device driver". However, Kuwate teaches a device driver (a controlling section, col 3, ln 1-15). It would have been obvious to one of the ordinary skill in the art at the time the invention was made to apply the teaching of Kuwate because Kuwate's

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controlling section would provide the controlling an access to the logical disk in according with a request from the external interface section 11.

4. As to claims 10, 19, they are apparatus claims of claim 1; therefore, they are rejected for the same reason as claim 1 above.

5. As to claim 3, Kuwate transforming the device into a logical disk (logically divided into P-EXTENTS 141, 142, 143, 144. The P-EXTENT 141, 142, 143 and 144 constitute one logical disk, col 3, ln 25-30/ the logical disk is reconfiguration, col 2, and ln 30-35).

6. Claims 2, 4, 11-18, 20 are rejected under 35 U.S.C. 103(a) as being unpatentable Kuwate (US patent 6,145,067) in view of IBM (IBM to release LVM Technology to the Linux).

7. As to claim 2, Kuwate does not teach a device manage plug-in module. However, IBM teaches (AIX device manager/AIX feature plug-ins, page 3, 4).

8. It would have been obvious to one of the ordinary skill in the art at the time the invention was made to combine the teaching of Kuwate and IBM because IBM's AIX device manager/AIX feature plug-ins would allow us to co-exist with other operating system on the same machine, to share a disk with another operating system and to access the extents used by other operating systems.

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9. **As to claim 4**, IBM teaches a partition manage plug-in mode (AIX partition manager plug-ins (page 3,4).

10. **As to claims 11-13, 20**, they are apparatus claims of claims 3,4, 2; therefore, they are rejected for the same reasons as claim 3,4, 2.

11. **As to claims 14-18**, they are apparatus claims of claim 5-9; therefore, they are rejected for the same reasons as claims 5-9.

12. **Claims 5-7, 9** are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuwate (US patent 6,145,067) in view of Auslander et al (US. 5,129,088).

13. **As to claim 5**, Kuwate does not teach constructing a volume group. However, Auslander teaches constructing a volume group (create ... volume group, col 13, ln 25-67/ col 10, ln 44-55/col 11, ln 20-26/col 12, ln 35-68/ col 18, ln 15-20).

14. It would have been obvious to one of the ordinary skill in the art at the time the invention was made to combine the teaching of apply the teaching of Kuwate and Auslander because Aulander's create volume group would provides ability to create, modify and query logical volumes, physical volumes and volume groups.

15. **As to claim 6**, Aulander teaches a volume group emulator plug-in module (a Volume Group Map Entry (col 12, ln 135-67)/ the logical volume manager (col 10, ln 1-23).

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16. As to claim 7, Auslauder teaches creating a logical volume from the logical creating a logical volume (col 18, ln 64-69 to col 19, ln 1-10).

17. As to claim 9, Kuwate does not explicit teach exporting the logical volume". "However, IBM teaches exporting the logical volume (accessing and using AIX logical volume (page 4).

18. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kuwate (US patent 6,145,067) in view of Auslander et al (US. 5,129,088) and further in view of IBM (IBM to release LVM Technology to The Linux).

19. As to claim 8, Kuwate and Auslander do not teaches a feature plug-in module. However, IBM teaches a feature plug-in module (the AIX feature plug-in (page 3,4).

20. It would have been obvious to one of the ordinary skill in the art at the time the invention was made to combine the teaching of Kuwate, Auslander and IBM because IBM's AIX device manager/AIX feature plug-ins would allow us to co-exist with other operating system on the same machine, to share a disk with another operating system and to access the extents used by other operating systems.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to LeChi Truong whose telephone number is (703) 305 5312. The examiner can normally be reached on 8 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on 703-305-9678. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIP. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIP system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).

LeChi Truong

May 28, 2004


MENG-AL T. AN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

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